



Part of Capgemini

# MICRO FRONTEND WITH ANGULAR

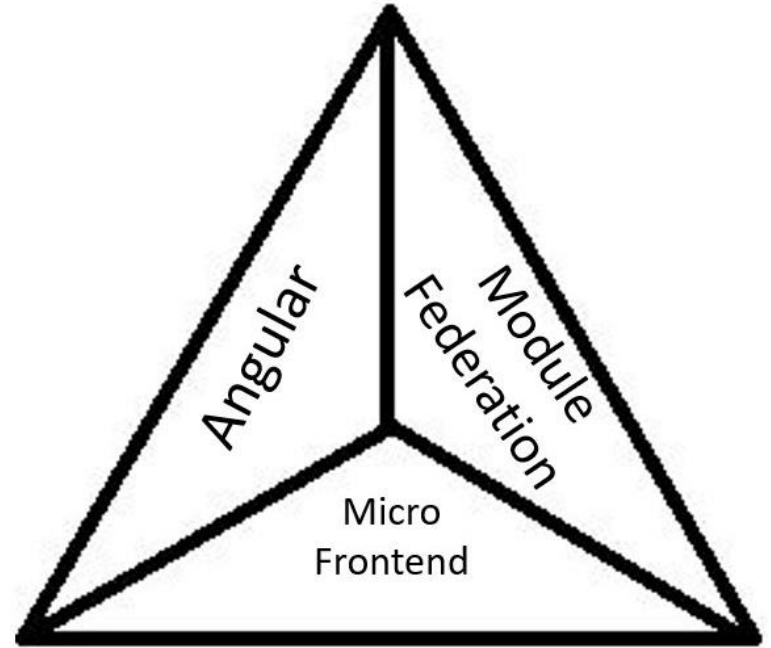
*Using Module Federation*

The background features a solid blue field with several large, semi-transparent blue circles of varying sizes. A white, curved, semi-circular shape is positioned on the left side of the frame, partially overlapping the blue background.

*Proposal*

# Proposal

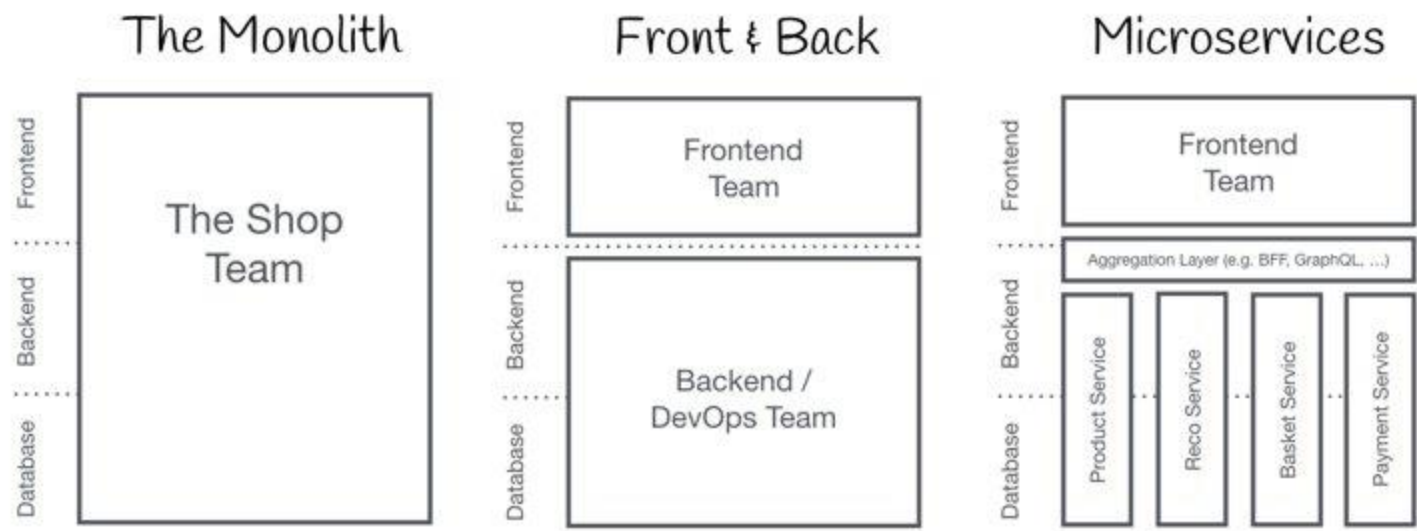
- Micro frontend
- Angular
- Module Federation



# *Micro Frontend*

*Is this some type of magic?*

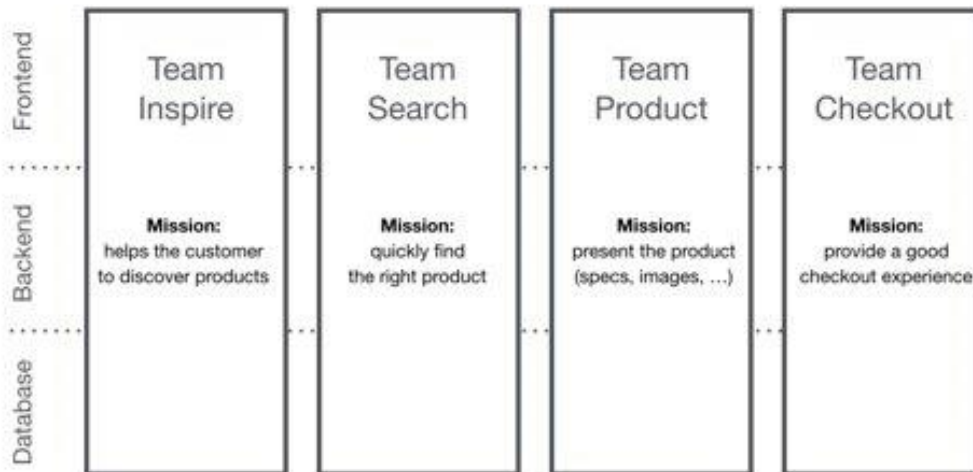
# Monolithic Frontends





# Micro Frontends

## End-to-End Teams with Micro Frontends

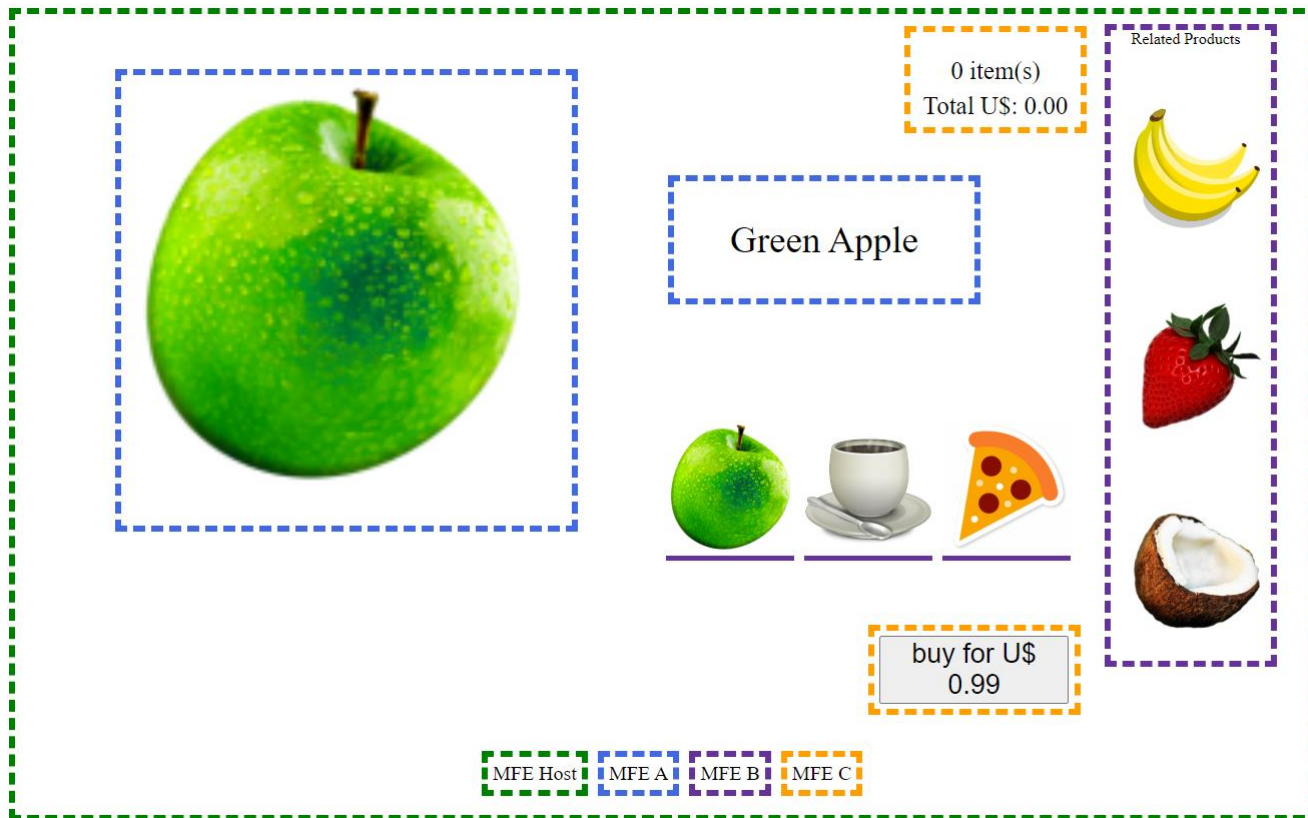




# Core Ideas behind Micro Frontends

- **Be Technology Agnostic**
- **Isolate Team Code**
- **Establish Team Prefixes**
- **Favor Native Browser Features over Custom APIs**

# Client-side Integration





# Pros and Cons

*This is brilliant...  
But I like this.*



# Pros and Cons

## Pros:

- Allows the team to develop, test and deploy components independently
- Allows to work with different technologies (Angular, React, Vue, Svelte etc...)

## Cons:

- Increase the project complexity.
- Can greatly increase the final bundle size.



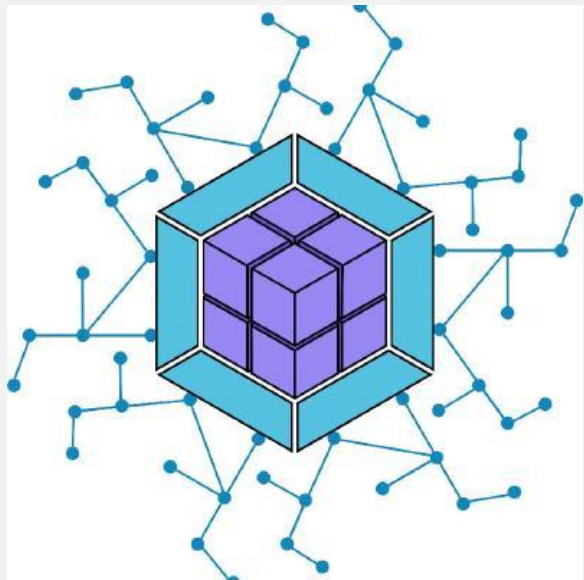
*Angular*

# About Angular

- Unlike React, Angular is not a library.
- Unlike Vue and Svelte, Angular is not a framework.

Angular is a development platform with a complete ecosystem to build mobile and desktop web applications.





# Module Federation

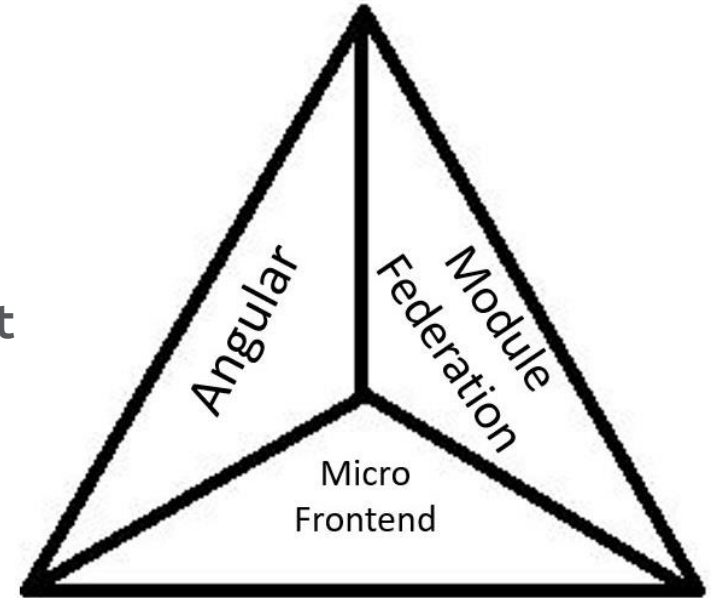


# Motivation of Module Federation

Multiple separate builds should form a single application. These separate builds should not have dependencies between each other, so they can be developed and deployed individually.

# Mixing the three together.

- Ability to lazy load mfes modules from different hosts. (If using Angular Navigation)
- **Awesome Code reusability**





# Pros and Cons

## Pros:

- Allows the team to develop, test and deploy components independently
- ~~Allows to work with different technologies (Angular, React, Vue, Svelte etc...)~~

## Cons:

- Increase the project complexity.
- ~~Can greatly increase the final bundle size.~~
- Better suitable for exporting small MFES.

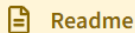




# How to use it?

@angular-architects/module-federation TS

14.2.2 • Public • Published 21 hours ago



Readme



Explore

BETA



7 Dependencies



2 Dependents



46 Versions

## @angular-architects/module-federation

Seamlessly using Webpack Module Federation with the Angular CLI.

### Thanks

Big thanks to the following people who helped to make this possible:

- Tobias Koppers, Founder of Webpack
- Dmitriy Shekhovtsov, Angular GDE

#### Install

```
> npm i @angular-architects/module-federation
```

#### Repository

[github.com/angular-architects/module-...](https://github.com/angular-architects/module-federation)

#### Homepage

[github.com/angular-architects/module-...](https://github.com/angular-architects/module-federation)

⬆ Weekly Downloads



# Hands on!



# When to use it?

- As you can see, nothing comes for free...



# Thank You

*Mateus Vasconcelos  
& Rubem Ruarllen*

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